1020: SULFURICURVUM (MBM) MEDIUM

$NaNO_3$	0.20	g
KH_2PO_4	0.20	g
NH_4Cl	0.20	g
$MgCl_2$ x 6 H_2O	0.40	g
KCl	0.20	g
$CaCl_2$ x 2 H_2O	0.10	g
Trace element solution SL-4	2.00	ml
$Na_2S_2O_3$ x 5 H_2O	2.50	g
Distilled water	1000.00	ml

1. Dissolve ingredients, except sodium thiosulfate, then sparge solution with 80% N_2 and 20% CO_2 gas mixture for 30 - 45 min to make it anoxic. Adjust pH to 7.0, then distribute medium under 80% N_2 and 20% CO_2 gas atmosphere into anoxic Hungate-type tubes or serum vials (e.g., 20 ml medium in 100 ml bottles) and autoclave. Prior to inoculation, add thiosulfate from an anoxic stock solution prepared under 100% N_2 gas and sterilized by filtration. Adjust pH of complete medium to 7.0, if necessary.

2. After inoculation, pressurize culture vessels to 0.5 bar overpressure with sterile 100% H_2 gas.

Trace element solution SL-4 (from medium 14)

Na_2-EDTA	0.50	g
$FeSO_4$ x 7 H_2O	0.20	g
$ZnSO_4$ x 7 H_2O	0.10	g
$MnCl_2$ x 4 H_2O	0.03	g
H_3BO_3	0.30	g
$CoCl_2$ x 6 H_2O	0.20	g
$CuCl_2$ x 2 H_2O	0.01	g
$NiCl_2$ x 6 H_2O	0.02	g
Na_2MoO_4 x 2 H_2O	0.03	g
Distilled water	1000.00	ml

First dissolve EDTA in distilled water and adjust pH to 7.0 using 2 N NaOH; then add other compounds.